

## **ABSTRACT**

A method for producing a superconductor having a high copper to superconductor composition (Cu/SC) ratio by cross-sectional area. An assembly is prepared formed of one or more fine filaments of a superconductor composition or of a precursor component for a superconductor alloy composition, which filaments are embedded in a copper-based matrix. The assembly is electroplated with copper to increase the Cu/filament ratio in the resulting product, and thereby increase the said Cu/SC ratio to improve the stability of the final superconductor.